

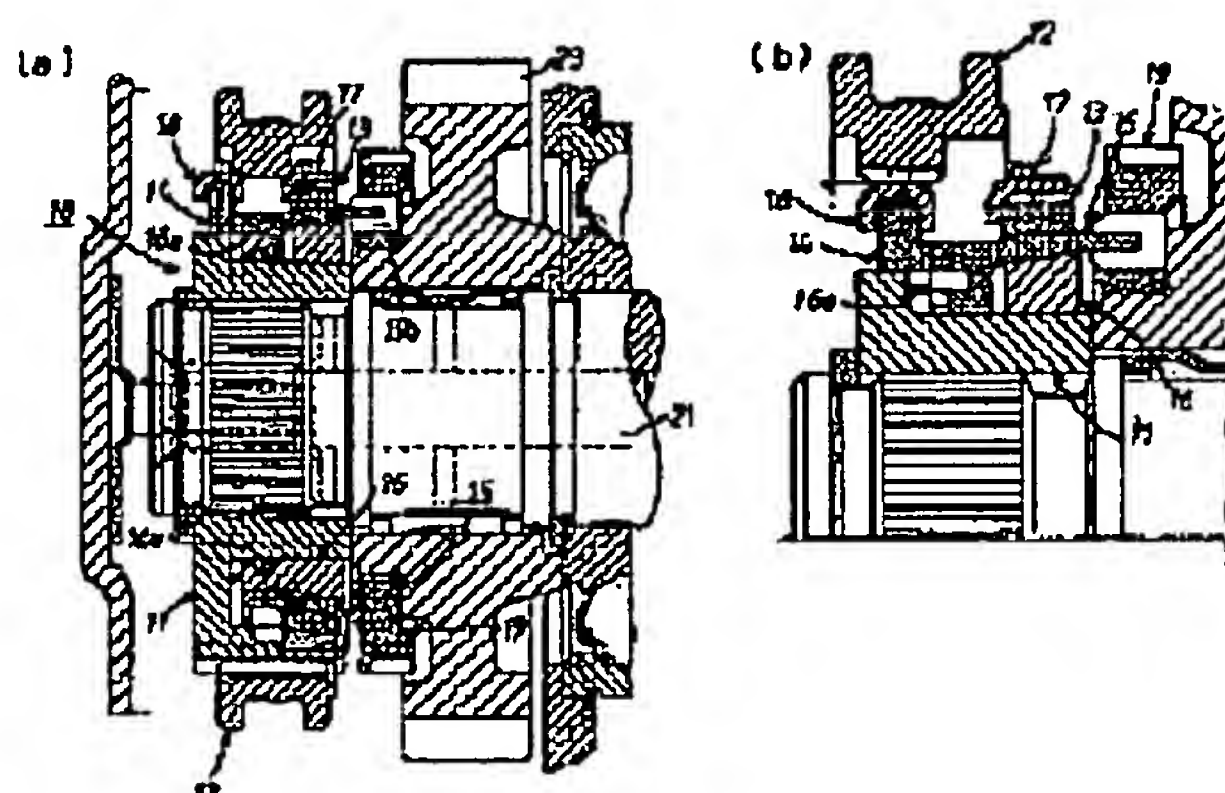
SYNCHRONIZING DEVICE FOR MANUALLY-SHIFTED TRANSMISSION

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Inventor: TSUCHIYA IKUTOMO; SASAKI TAMAKI
Applicant: TOYOTA MOTOR CORP
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Abstract of JP7091462

PURPOSE: To prevent a taper cone from making slide contact with a first synchronizer ring and a coupling member and to prevent lowering of durability by locating a spring member between a clutch hub and a coupling member. **CONSTITUTION:** During reverse shift operation, a hub sleeve 12 is slid leftward and by pushing the shoulder part of the engaging claw of a second key spring 18 by the protrusion part of the hub sleeve 12 along with the leftward slide of the hub sleeve, a second synchronizer 14 is pushed leftward. In this case, a spring 16e located between a clutch hub 11 and a coupling ring 16 constantly energizes the coupling ring 16 axially toward one side of the hub sleeve 12 by means of a force higher than frictional resistance. Thereby, at a reverse shift completion state, the energizing force of the spring 16e is exerted as a force against a traction force from a load in the direction of the arrow mark of the hub sleeve 12. Slide contact of a taper cone 15 with a first synchronizer ring 13 and the coupling ring 16 is prevented from occurring, and durability is improved.



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